

Market place

Members wishing to advertise in this space should ensure that their ads reach the editor by the 20th of the month preceding publication. Please write of print plainly and include your telephone number. There is no charge for this service. Note - no telephone ads will be accepted.

WANTED

Knobs (4) for Atwater Kent model 708; knobs (5) for HMV model 128; One knob for Majestic 90B; Three push-on knobs for Pilot 393B. Valve, 12D4 booster diode. Ned Matich
38 James Laurie St,
Henderson. Ph 836.4400

Columbus radios, models 705, 601 and 33. Cover only for Atwater Kent flat-mounting power transformer or complete transformer.
Murray Stevenson
53 Luanda Drive, Ranui
Auck. Ph 832-5414

Valves to complete restoration of Philips 2510 radio, 2 type E442, 1-E415, 1-C443, 1-506, ~~also~~ volume knob and speaker plug. Chassis for Atwater Kent 145 or any parts or info; 78rpm Juke Box wanted for restoration; Edison Bell 2-valve set or parts. Don Strange, 10 Pendlebury St,
Titirangi, Auckland, Ph 817-8611

Info wanted, photos, pictures, catalogues to assist in identifying HMV radio of 1930 -1940s, wooden table model has fine/coarse tuning knob. Barry King, 36 Flaxdale St
Birkdale, Auck 10. Ph 438-823

Cabinets for Philcos 90, 71 and 52, Zenith 6S256, 9S232 or 7S232 (Robot dial chassis). Chassis for 6-valve National or Skyscraper has aero dial and 5 controls. Knobs, 2 for AK 555 Jewel Box; 3 for Airzone Radiostar or Mullard 520.

Mark Thomson, 36 Cranston St, Torbay,
Torbay, Auckland, Ph 403-8388

Operating instructions for Weston model 770 tube checker; Circuit for Crosley 'Pup'. Eric Kirby, 10/29 Owens Road,
Epsom, Auckland 3. Ph 603-054

More ads on page 15

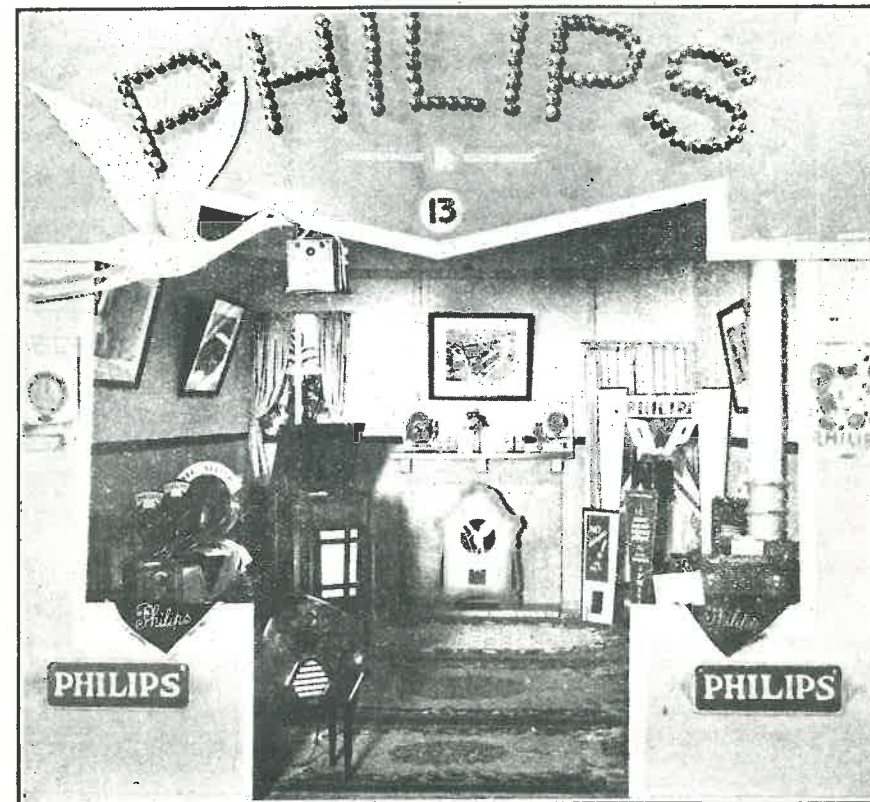
Hagard P.14
NZVRS

Vol.6 No.1 May 1985
May 1985

BULLETIN

NEW ZEALAND
VINTAGE RADIO SOCIETY

An organisation devoted to the preservation and restoration of early radio equipment, and collation of associated information



PHILIPS STAND AT WELLINGTON RADIO EXHIBITION (Aug.1929)

If you look carefully you will see an 'AC-QP' (model 2515) hanging from the ceiling. And if you look even more carefully you will see that a stork is bringing the new Philips' baby. Philips seemed to have a predilection for storks in those days - there is another one in the form of a grille on the firescreen speaker in the background.

NEW ZEALAND VINTAGE RADIO SOCIETY

PRESIDENT: Des Wright
3 Coquille Place
Bucklands Beach
Auck. Ph.535-8928

SECRETARY: Don Strange
10 Pendlebury St
Green Bay
Auck. Ph 817-8611

TREASURER: Eric Reynolds
13 Coronation St
Belmont
Auck. Ph.494-304

BULLETIN EDITOR: John Stokes
617 Dominion Rd
Balmoral
Auck. Ph 604-213

Editorial Notes

In case anyone hasn't noticed it, we are now entering our sixth year of publication. At times producing the Bulletin has not been the easiest of tasks, but somehow or other there has generally been enough material on hand to complete each issue.

Although many members have already sent in contributions, there must be others who could help out in the same way. We're still waiting to hear from them! Contributions from readers are the life blood of any publication such as ours, so no apology is made for once again appealing to those who have not already done so to send in something. Photos are particularly welcome, but to be suitable for reproduction they must be in black and white. Incidentally, anyone having difficulty in getting B&W processing done locally may send in the reel of unexposed film and we will do the rest. Prints and negs will, of course, be returned when finished with.

* * * * *

Attention is drawn to the fact that we now have two new members on the Executive Committee - Don Strange as Secretary, and Eric Reynolds as Treasurer. Formerly the offices of secretary and treasurer were combined under the able control of Eric Kirby who, after five years of meritorious service did not stand for re-election this year. In recognition of the sterling work he has done Eric was made a life member of the Society.

* * * * *

In the past the legibility of reproduced text in the Bulletin has not always been as good as it might. This is no reflection on our printer, who does an excellent job with inferior copy. The trouble is due mainly to a loss of definition which occurs when typescript undergoes a size reduction on a photocopying machine before it reaches the printer's hands. In this issue a slightly different procedure has been used in an attempt to improve matters.

* * * * *

The following true story seems worth relating. A southern member recently bought a new car. Nothing unusual about that, of course, but what was unusual was the reason. Seems he had previously owned an almost new 'Mirage' which he was quite happy with, but decided to change it for a 'Charade' Why? because the new car was 11" shorter than the old, thus allowing him to line the rear wall of his garage with shelves. And why did he want more shelves? You've guessed it. To make room for more radios!

Letters to the Editor

C.1.3

Doug Virtue surely misunderstands what I am getting at in my suggestion of using Amateur Radio as a means of maintaining contact between those members of the NZVRS who are also hams. The NZART just doesn't come into it at all. Furthermore, I think that if the idea ever got off the ground, it would be a good idea to operate on A M , which would be eminently in keeping with 'vintage radio' and would also afford comfortable listening on those lovingly restored all-wave receivers used by non-transmitting members.

Don Sutherland
Wanganui.

There recently came into my hands an otherwise quite undistinguished little mantel set, a NZ Philco 515A, presumably manufactured just after WW II. What struck me as remarkable was the unexpected valve line-up and the resulting number of different types of sockets used. There is a 7J7 converter in a loctal socket, a 39/44 IF amplifier in a 5-pin UY socket, the 2nd detector/1st AF is a 6SQ7 in an octal socket, the output valve is a type 41 in a 6-pin socket and the rectifier a 6X5 in an octal socket. Thus in a 5-valve set four distinct types of socket were used. Is this a record?

Another point of interest is historical. According to the Stokes survey the type 39/44 was first available in 1932, the type 41 in 1932, the 6SQ7 in 1938, the 7J7 in 1939 and the 6X5 in 1937.

Apart from the variety this means that a set presumably manufactured in 1946 used valve types developed up to 14 years earlier. Was this usual in the immediate post-war years when no doubt stocks of valves were limited? Perhaps the Editor or other readers might have even more remarkable examples of hotch-potch valve line-ups.

G.R.Gilbert
Lincoln.

The photograph of the 1YA tower at Henderson (Feb 1985 Bulletin) brings back memories of the original AWA installations, the first 10KW transmitters that they had constructed. At the time other stations were using 2½KW units and 1YA used one of these as a driver for the 10KW linear amplifier.

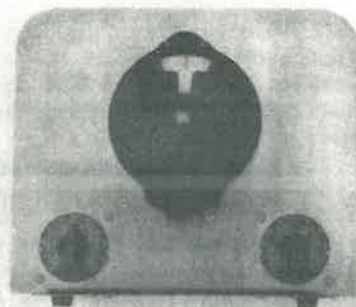
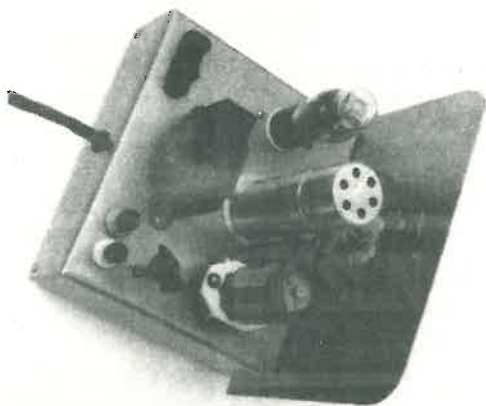
The final amplifier used British CAT water-cooled triodes with 13KV on their plates. Plate current was 1.6 amps after six month's use, though prior to that the plate current went up to 2 amps because the cooling water was collected from the roof of the transmitter building and the corrugated iron took some time to lose its acidity. Rubber hoses wound on wooden reels provided the RF chokes for feed and return water.

The filaments were supplied by a motor generator which also provided the grid bias supply via a second winding. During those interminable periods when Culford Bell or Rex Sayers would intone "We are standing by for the chimes at 7PM" one could hear the commutator sizzle on the grid bias supply quite loudly. (Abbreviated, Ed)

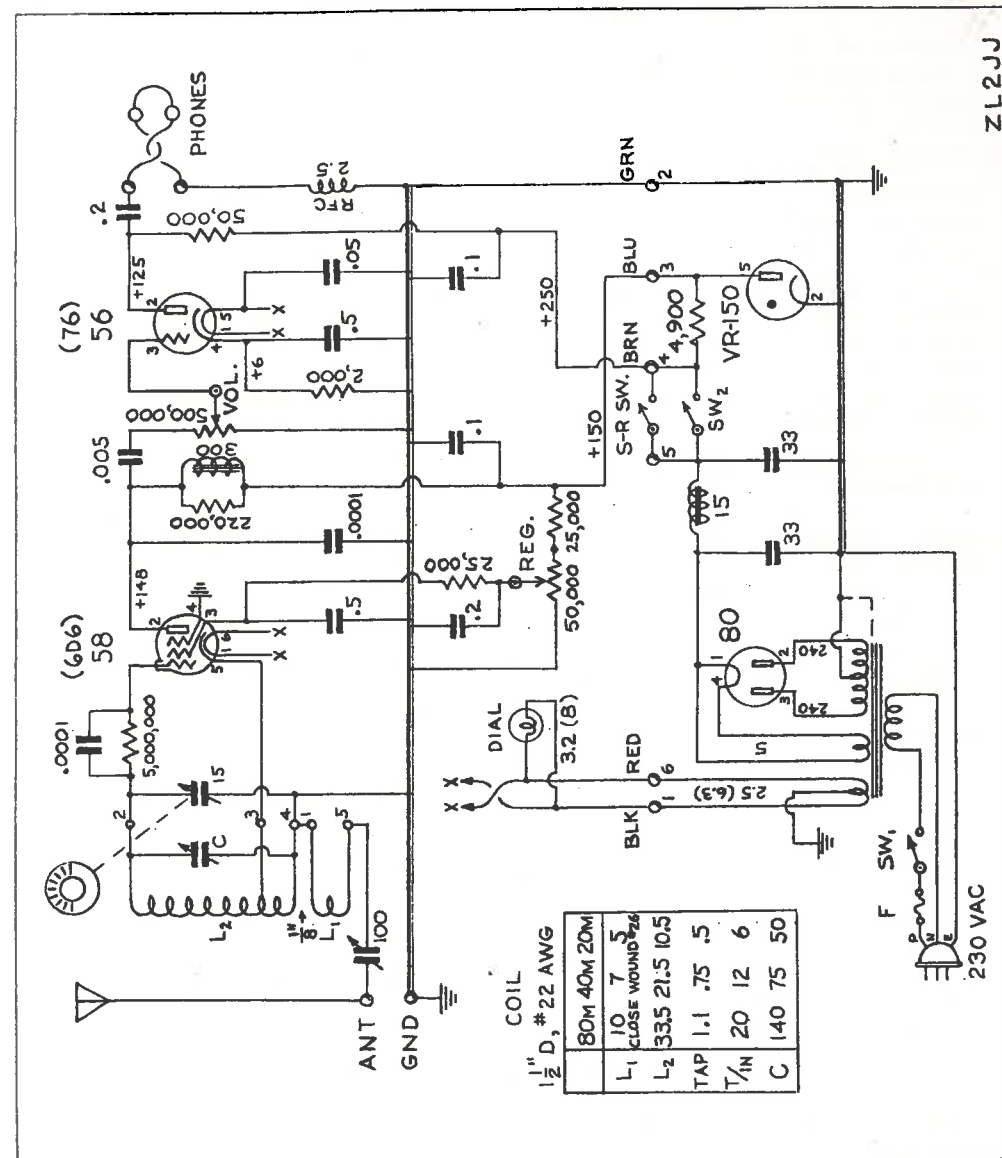
Alan Roycroft
Honolulu.

A2 ✓

References: "RADIO" Handbook, 1938 and 1947
"ARRL Amateur Radio Handbook 1937 and 1946



4



2

DON'T CALL THE FIRE BRIGADE

By Alex Jeffreys

There are many who can recall the past with the comfortable feeling so frequently linked with nostalgia. There are others whose minds, for their own reasons, prefer to remain blank. And still others who cannot believe it happened. But it was like this.

Many years ago the present scribe was requested to look over a public address system in a night club-cum-restaurant, and suggest what might be done to liven up the sound. The premises and system were duly inspected, and arrangements made to use the existing amplifier but to supply new loud speakers complete with enclosures. After installation, the first test revealed a fault in the turntable so this unit was returned to the workshop.

Late in the following afternoon the writer parked his vehicle opposite the premises, gathered up the turntable and walked across the road to the scene of his previous activity. Somehow it didn't seem quite the same. The night club was situated on the first floor of a wooden building in the central city, a few hundred yards from Queen St. Close by - a bus stop, cars, people and even a church. Half-way across the road he became aware that smoke was issuing from the open windows directly above.

Suddenly there seemed to be no people, no bus stop, cars or church. He was very much alone. But not quite. There was a burly figure that looked like a cook - if figures can look like cooks - with an arm in the street doorway holding up one architrave and with his hips holding pressed against the other. The figure gave the impression that it was blocking access to the staircase immediately behind. Clearly, something had to be said. "Good evening, ah, I notice some smoke coming out of the upstairs windows. Did you know?" The burly figure thought for a long moment and finally indicated that such could be possible. And stayed where he was. There was a long silence.

"Yes, well... ah, yes, have you called the fire brigade?" The burly figure thought that one over and slowly indicated that he had done so and was now waiting for something to happen. Well, it seemed to be happening, but all the action was upstairs. Pushing his way past the cook the writer placed the turntable inside the doorway and rushed up the stairs.

There were two sets of curtain alight, as was the wall paper, and not a hose or a fireman in sight; or a big burly figure who looked like a cook, for that matter. Through the smoke could be seen three new speaker enclosures attached to yesterday's wall.

The situation was becoming more bizarre with every minute that ticked by, and clearly it was past the time when someone should be doing something. No hoses, no fire alarm, no taps. But wait - a full coffee urn with a loose lid. The present scribe had never been trained in firefighting but reasoned that yesterday's coffee should work wonders - never mind the colour.

Grabbing a milk jug he threw copious quantities of time-expired coffee over the burning curtains, reducing them to smoke and smell, with the

wallpaper following not far behind.

By this time the cook had found his way up the stairs. He couldn't believe the scene that greeted him. Coffee here, coffee there, great streaks of coffee pouring down the wall paper that had not yet caught alight. Overturned flower vases and tablecloths about to burst into flame. Causing it all was a wild-eyed young man sloshing a dark brown liquid at anything that looked hot enough to burn. And the smoke!

The cook was very angry indeed and accused the writer of putting out the fire. "Yes, certainly I did. Is there anything wrong with that? The cook thought there was and that his boss was not going to be at all pleased. And to prove it he called up the boss on the 'phone to tell him what had happened.

To judge from the sounds emanating from the earpiece, this was a development that had not been foreseen. Plainly the boss was very angry. Equally plainly, there was going to be no business there that night, and worse, the building was still standing.

So, gentle reader, what would you have done? Would you have taken down your loudspeakers and departed, glad to get out alive? Or would you have left them installed as ordered and sent in an account? This scribe took the latter course - and thirty years later is still waiting to be paid. But he did retrieve, on his way out, the newly repaired turntable formerly belonging to that night club. It now serves well as a turner of discs - - and also as a vocal reminder of one man's folly.



PLEASE READ THIS

When writing to the NZVRS please address your letters as under:

Membership and general enquiries to the Secretary: Don Strange
10 Pendlebury St
Green Bay, Auckland 7

Payment of membership fees to the Treasurer: Eric Reynolds
13 Coronation St
Belmont, Auckland 9

Contributions to the Bulletin and advertisements, also orders for back numbers of the Bulletin to: John Stokes
617 Dominion Road
Balmoral, Auckland 3

If writing about two different matters it will help us if separate letters are sent to each person concerned. Thank you.

A BRUNSWICK SPEAKS AGAIN

By Bruce Holmes

Last year a young farmer with an interest in things of bygone days appeared at my workshop with an old four-legged radio cabinet and asked whether I had a radio that could be fitted into it.

A close inspection showed it belonged to a Brunswick model 15 of 1930 vintage. The woodwork was sound but the front panel had been roughly cut out, apparently with the idea of making a china cabinet out of it many years ago. The owner likes the style of the cabinet so I suggested that he get it french polished and a matching panel made to replace the missing original.

He also mentioned that he had found an old chassis in the manure storage shed on the farm, but didn't think it belonged to the cabinet. He had brought it with him, just in case. When he hauled it out of his station wagon for me to inspect a quick look-see confirmed it was indeed the Brunswick's 'works', so our joint interest rose considerably. "Can it be brought back to life?" he wanted to know.

I was game, and he was prepared to spend time and money on this exciting project, so I sent him off to get the cabinet in order while I examined the corroded chassis which was a one-piece pie-dish type pressing about six inches deep with the valves being set down through the top on a sub-chassis. Three valves were missing but the three 24As were intact under a metal cover box.

As the thing was filthy with blood-and-bone fertiliser and other stuff too, I took it outside to clean. Fortunate all the stuff had been dry and it soon started to look a bit more like its old self under my careful treatment.

The removable sliding metal baseplate revealed an astonishing sight; there was a layer of little black beetles some two inches thick, like a felt mat, completely obscuring the 'innards'. After a day's clean up no obvious damage was apparent and most things seemed intact. The power transformer had its two-core flex cut short and on removing the cover box I found the large boiled-in-pitch transformer in good condition with a blown fuse in the clip beside it. I should guess that the set had been plugged directly in to the 230-volt supply. So far, so good.

In all my 50 years of radio servicing I had never come across a set like this one, so all the more reason to get it back to original working condition. This was indeed a challenge, and my old friend John Stokes of Hamilton days came to my rescue with a sketch of the front facia and, wonder of wonders, a genuine Brunswick dial escutcheon. Incidentally, this model had the chassis mounted below the speaker, the reverse of the usual console setup.

This set has a mono control with a large-diameter tuning knob over a volume control shaft which also operates a local-distance switch. Both knobs had long since vanished, unfortunately. The volume control was a bit of an oddity being in the form of a differential variable condenser which varied the coupling between the first and second RF stages. The output stage consisted of two 45s, but these were connected in parallel, being resistance coupled from the detector instead of the more usual transformer-coupled push-pull arrangement.

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1275 Dominion Rd Ext, Mt Roskill, Auckland 4
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Roycroft, A R	2877 Kalakaua Ave, Honolulu, HAWAII 96815
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ASSOCIATES

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British Vintage Wireless Society
Robert Hawes, 63 Manor Rd, Tottenham, London N17 0JH, ENGLAND

Historical Radio Society of Australia
Ray Kelly, 49 Sharon Rd, Springvale, Vic 3172, AUSTRALIA

Society of Wireless Pioneers
P O Box 530, Santa Rosa, Calif 94502, USA

Southern California Antique Radio Society
Floyd Paul, 1545 Raymond, Glendale, Calif 91201, USA

California Historical Radio Society
969 Addison Ave, Palto Alto, Calif 94301, USA

Antique Radio Club of America
John Drake, 23 East Wharf Road, Box 942, Madison, Conn 06443, USA

When it came to working on the chassis I found the HT choke was shot, as were large cardboard box of filter condensers. I replaced the main filter condensers with 16 μ F can type electrolytics, which looked OK under the chassis. The RF coils were all sound and the huge 4-gang tuning condenser cleaned up well. The 24A detector ran with 200 volts on its plate and the coupling condenser was leaking like a sieve after all these years. As the original speaker was missing this entailed a hunt for a replacement and I ended up with an 8-inch Radio Corp green coloured one.

Now I sent the farmer and his Mrs hunting around town to find a piece of material suitable for use as the grille cloth, something with a spray of flowers on it. I had been told that the original cloth was decorated thus as there was no fret-work, just a shaped opening in the cabinet front. A couple of hours later the couple returned with a piece of curtain material that looked just right, the only catch was that it had a rubber backing which rendered it quite unsuitable for the purpose. Undaunted, they took it away and came back the next day with the rubber backing removed over the area covering the speaker opening. And, guess what, they had spent the evening dissolving the rubber backing with fingernail varnish remover!

All that remained to be done was to mount the speaker on a new baffle board, fix the grille cloth in position and fasten in the chassis. As the original 230-110 stepdown transformer had disappeared the owner found a suitable modern one to use in its place.

And, the result of this three month's off-and-on dedication? A handsome radio of good tone and fine appearance. But now it seems, the young farmer has caught the bug and has started a small museum by purchasing my brother's player piano as well as acquiring an early Patterson console from somewhere else.

Ah! but that was a lovely radio, and a pleasure to work on, with its

'Brunswick Super Strong' stencil still in place on the back of the chassis, Super no doubt referring to the one-piece pressed chassis.

Brunswick
OF **Panatrope** FAME

*above red May 1988
from Janet Bill Dack
that they have not
been receiving
our NZVRS
Bulletin*

was editor

*{ later found that
the recipient in the U.S.
had not been
passing on the Bulletin
I asked it up.*

HIGH JINKS IN THE SERVICE DEPT (3)

by Alan Roycroft

The incidents or accidents that happened all those long years ago may have been serious or life threatening at the time but they now appear to have a rosy glow. For example, we had a confederate named Jack who had a hair trigger temper but was an outstanding serviceman. We all hated the Majestic model 20 in the 'Mantel' cabinet. The use of the word 'mantel' in this case was freely used by the Grigsby Grunow Company to denote their version of a reinforced steel structure bridging a fireplace. The set was in a massive wooden cabinet with a chassis eight inches in depth having steel bottom cover plate held in place by twelve 6-32 screws.

The first thing to fight when removing the chassis was the short (very) speaker cable which of course did not have a plug and socket. Once you managed to get the chassis out it had to sit up on its end, half in the cabinet because of the shortness of the cable. Next the twelve screws in the bottom could be removed, opening a new chain of horrors, since mounted on the bottom plate were the push-pull input and output transformers, the four-section filter block, the filter choke and sundry other other parts. Connecting cable in Chicago must have been \$30 an inch in those days because all the parts were connected to the chassis by wires no more than ten inches long, and none were colour coded.

It was a warm day and Jack was sweating freely as he very carefully pulled the bottom plate away from the chassis. Insufficient attention was being to the cabinet because at this juncture it had moved perilously near to the edge of the bench. The slightest swivelling action of the chassis at this instant caused the cabinet to fall and Jack grabbed it but in doing so foolishly let go the bottom plate. It is not clear which item arrived on the floor first, I cannot say as I was having hysterics. But there they were, cabinet and speaker, free at last of the captive cable, the field coil wires pulled out of the winding, the voice coil terminal strip still had pieces of the voice coil adhering. The chassis cover was free as a bird, with all its connections severed.

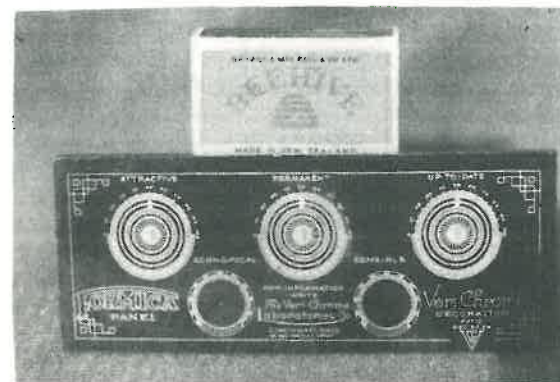
Jack surveyed the scene and quietly strode out to the freight elevator put his arm through the accordion-style steel gate and opened it; the car was on the ground floor forty feet below. He marched solemnly back to his bench three times, heaving the remains of the Majestic, a bit at a time, down on to the freight car, latched the gate, wrote up a service sheet marked "totally unrepairable" and pinned on a ten-pound note as trade-in value.

Majestic RADIO

"Mighty Monarch of the Air"



Alan Brehaut (Timaru) admires Fred Pond's Ekco during a recent visit to Auckland. Fred obtained the Ekco whilst on a recent visit to the U.K.



A miniature Formica panel advertising the then new 'Veri-Chrome' marking system (1925).



WHAT IS IT?

(Answer on p.15)



Kester rosin-core solder was new in 1925. This can was in mint condition 60 years later

HOW WE BEGAN

As one or two people have expressed interest in learning something of the origins of our society, the following has been compiled for their benefit.

About six years ago a small group of Aucklanders first got together to discuss the possibility of forming some sort of organisation for the benefit of people interested in vintage radio. The names of those persons were: Arthur Allen, Ian Brown, Stan Burrage, Graham Jessop, Eric Kirby, Jack Paton, Ross Paton, John Stokes, George Weston and Des Wright. (total 10)

Just why those people were drawn together at particular instant in time is a little hard to explain, but it seemed that the time was ripe. Anyway, the first meeting was held on 26 Nov. 1979 at John Stokes' shop in Dominion Road and a decision was made to form a society, an election of officers taking place on the spot.

One of the first things to be decided on was whether the group should be a purely local organisation or whether it should be open to all, and after some discussion the latter course was chosen. The next thing which arose was the choosing of a suitable name, and after some more discussion the title New Zealand Vintage Radio Society was decided upon. This decision meant that it would be vitally important to issue some sort of regular newsletter or bulletin if out-of-town members were to be attracted and held. Thus it was that in May 1980 the first issue of the NZVRS Bulletin saw the light of day.

From then on it was all 'go', and at the present time the membership has grown to nearly 200. In addition we have reciprocal agreements with seven overseas organisations.

It had also been decided to hold regular monthly meetings, which continued to held at the original venue. By the end of the first year, however, the number of those attending had grown to the point where it was necessary to look for larger premises. As it happened, one member, Tim Gash, knew of the existence of a meeting room attached to a nearby church, and fortunately we were able to secure the use of it. Meetings have been held there ever since, including the quarterly bring and buy sales.

By somewhat of a coincidence, at almost the same time as the NZVRS was getting under way someone at the very opposite end of the country had begun to contact people known to have an interest in vintage radio with view to issuing a newsletter. Arthur Williams of Invercargill had got as far as drawing up a design for for a letterhead incorporating the words "NZ Vintage Wireless Bulletin" when he heard of the formation of the NZVRS and so did not proceed further with the idea.

FLEA MARKET SALE

It has been decided to hold a flea market type sale later in the year. This will be a daytime sale on a Saturday. Members will be able to hire a trestle table at a charge of \$10 where they can display their wares. If you are interested in participating please advise the secretary, Don Strange, 10 Pendlebury St, Titirangi Ph 817-8611. Further details in next Bulletin.

Why Transformers Break Down-

It is commonly assumed that transformers always break down because of overload. Oftentimes, however, the cause is far different. The windings of an audio frequency transformer are called upon to carry comparatively heavy low frequency impulses of varying audio frequencies. The louder the signals the stronger are these audio frequency impulses.

If the windings of a transformer were microscopically examined whilst audio frequency impulses of varying frequencies were flowing through them, it would be seen that they were vibrating in sympathy with the frequencies they were passing.

If the windings had not been designed bearing in mind the conditions of service, although the effect of the vibrations might not be immediately obvious, the ultimate effect would be to alter the molecular formation of the copper in the windings and render the wire crystalline. Once the windings have reached this condition, it is only a question of time before the user will one day be surprised to find his transformer no longer amplifying. Unfortunately, even expensive transformers are not immune from this fault. That is why these break down even though in the factory testing room they may have withstood thousands of volts.

Apart from perfect mechanical constructions, LISSEN AUDIO FREQUENCY TRANSFORMERS have certain technical attributes which place them above every other. For amplification of radio telephony they are unsurpassed.

THE LOW TONES OF AN ORCHESTRA. The LISSEN T1 Transformer is the only transformer which has a sufficiently high impedance value that it forms the ideal transformer for immediately behind the detector valve. THE COIL WOULD AMPLIFY BY ITSELF WITHOUT ANY IRON CORE AT ALL.

The secret of its beautiful amplification is in the expensive coil. Even the low tones of an orchestra are faithfully reproduced, perfect in every note ... 30/-

AUDIO FREQUENCY IN REFLEX CIRCUITS. Besides being exceptionally pure and powerful in all reflex circuits, the LISSEN T2 Transformer can be used for all stages. Recommended also to follow the LISSEN T1 where the latter is not used throughout 25/-

SKILFULLY BALANCED DESIGN. The LISSEN T3 Transformer actually compares with many expensive transformers of other make. It is certainly the best light transformer made. For all stages ... 16/6

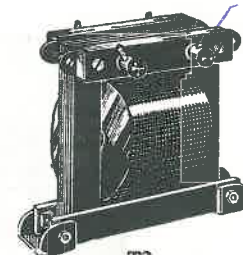
FIT A LISSEN TRANSFORMER—and make sure.

WHY USE MIXED PARTS?—You can, of course, make your receiver out of mixed parts, but it will never give the same results as a finished instrument built with all LISSEN parts. IF YOU USE A LISSEN PART WHEREVER YOU CAN, YOUR FINISHED RECEIVER WILL BE FAR ABOVE THE AVERAGE.

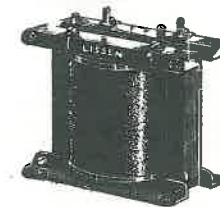
The Text Book of LISSEN Parts contains a lot of useful information. Post free 8d. Free to the trade.



T1



T2



T3

LISSEN LIMITED

Woodger Rd., Goldhawk Rd.
Shepherd's Bush, London, W.12

Telephones: Hammersmith, 3380, 3381, 3382 and 1072.
Telegrams: (Inland)—"Lissenium, Shepherds, London."
Telegrams: (Foreign)—"Lissenium, London."

BUILD—WITH LISSEN MASTER PARTS

An interesting reason for the failure of the fine wire used in audio transformers is given in this early advertisement. Imagine there being enough energy to cause molecular vibration of sufficient intensity to make the wire become crystalline!

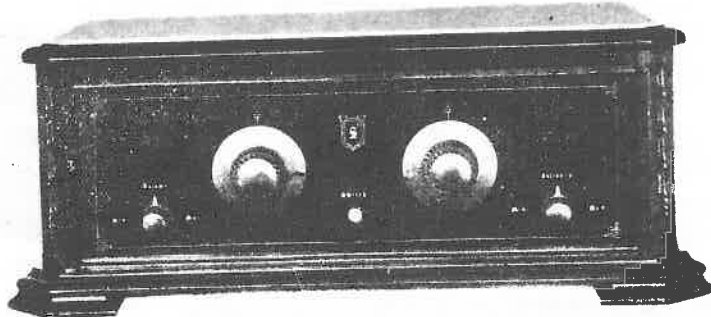
First in New Zealand!

A SCREENED-VALVE RECEIVER

EVERYONE is talking about the wonderful amplification possibilities of the revolutionary SCREENED VALVES, but owing to their scarcity receivers designed to use the new valves are not generally on the New Zealand market.

An early shipment enabled us to test and design the "Hargra," a special receiver using these valves, and these remarkable receivers are now ready for delivery on arrival of the screened valves.

Sets are being reserved for patrons now—the number of orders that can be ensured early delivery is necessarily limited to the stock of valves arriving.



The "Hargra" Screened-valve Four

The results obtained with the "Hargra" Screened Valve Receivers support fully the enthusiastic test reports of these valves which have appeared all over the world and in local papers, and we say without hesitation that these receivers are revolutionary. Concrete examples of results are: The reception of 2BL Sydney on loudspeaker on four valves, USING FOR AN AERIAL A 6ft. LENGTH OF WIRE; reception of ALL "AUSSIE" stations on A LOOP AERIAL; AUSTRALIANS ON A WATERPIPE EARTH ONLY, WITH VOLUME ENOUGH TO BE HEARD 100 YARDS AWAY.

An addition to the remarkable list of advantages of the "Hargra" Screened-valve Receiver is the unusual purity of reception.

You owe it to yourself to investigate these revolutionary receivers. Pop in at any time, and we will demonstrate them to you. If in the country, drop a line for fuller details. Those who get in first will astonish their neighbours when their four-valve receiver beats the "six." COME ALONG AND SEE ONE.

Let Your Receiver be a "Hargra"

HARTLE & GRAY

CUSTOMS STREET, WEST,

AUCKLAND

British Radio Supplies

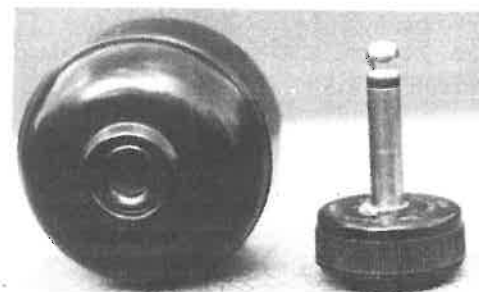
—and MENTION "RADIO" WHEN WRITING

RECEIVER QUIZ

- Q. In the RCA-HMV model T6 why was the 80 rectifier enclosed in a metal shield can?
- A. The T6 was one of the first RCA sets to use the then new metal tubes. As these tubes had received extensive publicity, which included the 'knocking' of glass tubes, it would have looked strange to see one glass tube in what would otherwise be an all metal tube set. Thus shield had no function other than to hide the glass rectifier from sight.
- Q. If a 'Pilotron' was a brandname of a vacuum tube (valve) made by the Pilot Co, what was a 'Philcotron'?
- A. A wet electrolytic HT rectifier made by Philco for use in their "socket power" units.

ERRATA

Peter Lankshear advises that there was an error in his article on the AK 708 which appeared in the Feb '85 issue, p.6, par5. The last sentence should read "These chassis retained the preselector stage on the BC band".



Answer to What is It

A 'Bulgin' wall-mounting phone jack and plug (1937)

MARKET PLACE

WANTED

Info wanted, photos or Xerox copies of old ads of cathedral radios; Many thanks to those who responded so far. Mark Thomson, 36 Cranston St Torbay, Auck. Ph.403-8388

FOR SALE OR SWAP

Columbus knobs, 2-large, 1-small and 1-pointer; require 4 Philips clear plastic knobs complete with grubscrews. Bob Logan, P.O.Box 15411 New Lynn Auckland, 7

Red Diamond crystal detector, new, in sealed carton \$8. John Stokes 281-C Hillsborough Road Mt Roskill Auckland 4. Ph 656-615 (eve)